

FORTHCOMING PUBLICATIONS

Volume 79, (2005)

Proceedings of 6th National Conference on Solid State Ionics, held at the Department of Physics, Jadavpur University, Kolkata-700 032, India, during October 5-7, 2004

Crystalline and composite materials

Study of ion transport behavior in CeO₂ dispersed fast ion conducting composite electrolyte system

R KUMAR, R K NAGARCH, R SHARMA AND R C AGRAWAL

Growth and DC conductivity studies in MnSeO₄.2H₂O single crystal

R RAJESH, A SANTOSH KUMAR, LEESAL IYPE, GEORGEKUTTY JOSEPH AND GODFREY LOUIS

Structural analysis of lithium nickel vandate Li_xNiVO₄ ($x = 0.8, 1.0, 1.2$)

S SELVASEKARAPANDIAN AND M S BHUVANESWARI

AC conductivity and dielectric studies of K₃Na (SeO₄)₂ single crystal in the high temperature region

GEORGEKUTTY JOSEPH, A SANTOSH KUMAR, LEESAL IYPE AND GODFREY LOUIS

Devices

Proton conductors and their application

R U TIWARI, K SINGH AND S S BHOGA (INVITED)

Development of intercalating γ -MnO₂ for protonic solid-state battery

K SINGH, HEMANT MALANKAR AND SMITA ACHARYA

A novel liquid-solid lead-acid secondary battery : study of charge-discharge behavior

R C AGRAWAL, G P PANDEY, D SINGH AND M L VERMA

Solid state proton conducting secondary battery at room temperature

K SINGH, S S BHOGA, S M BANSOD AND R U TIWARI

Citric acid induced improved homogeneity of CeO₂ coatings for electrochromic device applications

AMITA VERMA, A K BAKHSI AND S A AGNIHOTRY

Performance of electrochemical CO₂ gas sensor with NASICON dispersed in a binary solid electrolyte system

S S BHOGA AND K SINGH

Glasses

Thermal investigations on mechanically milled and melt-quenched superionic glasses using differential scanning calorimetry

ANSHUMAN DALVI AND K SHAH (INVITED)

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Effect of TiO_2 addition on the durability of sol-gel derived amorphous WO_3 films

RASHMI SHARMA, T K SAXENA AND S A AGNIHOTRY

Transport property studies on a new silver ternary glassy electrolyte system : x [0.75 AgI : 0.25 AgCl] : $(1-x)$ [Ag_2O : V_2O_5]

R C AGRAWAL, ALOK BHATT, ANGESH CHANDRA, PUJA DIWAN AND M L VERMA

Electrical conductivity of Li_2O : B_2O_3 : ZnO glasses

R S GEDAM, A V DESHPANDE AND V K DESHPANDE

Ion transport studies on a new silver ion conducting lead borate glass system : x [0.75 AgI : 0.25 AgCl] : $(1-x)$ [Ag_2O : (PbO : B_2O_3)]

RANVEER KUMAR, NIDHI B JAIN, R K NAGARCH AND R C AGARWAL

Frequency response of the mechanochemically synthesized AgI- Ag_2O - B_2O_3 superionic glasses

ANKUR VERMA AND K SHAHI

Structural and transport studies on rapidly quenched PbI_2 - Ag_2O - WO_3 composites

S AUSTIN SUTHANTHIRARAJ AND VINOD MATHEW

Polymers

Can lithium ion conducting gels have higher conductivity than the corresponding liquid electrolytes?

BOOR SINGH AND S S SEKHON

Effect of different plasticizers on the conductivity behaviour of polymer electrolytes containing NH_4PF_6

JITENDER PAUL SHARMA AND S S SEKHON

Study on steady-state dark I - V characteristics in phenosafranin dye based solid state thin film photoelectrochemical cell and calculation of band gap energy

AJANTA HALDAR

Effect of 160 MeV Ne-ion irradiation on polymer salt complex films containing laponite

K C VERMA, MINAKSHI MAITRA, SUJATA TARAFDAR, TAPAS RANJAN MIDDYA AND UDAYAN DE

Influence of plasticizer on the conductivity of PMMA based proton conducting gel electrolytes

SHILPA PANDEY, S PATEL AND S L AGRAWAL

AC impedance and dielectric spectroscopic studies of proton conducting PV Ac-PVdF blended polymer electrolytes

R BASKARAN AND S SELVASEKARAPANDIAN

Investigation of swift heavy ion irradiation (160 MeV, Ni^{12+}) effects on polypyrrole conducting polymers as electrode materials for all polymer redox supercapacitor

A M PHARHAD HUSSAIN, D SAIKIA, A KUMAR, F SINGH AND D K AVASTHI

Studies on proton conducting polymer electrolytes gelled with PVdF and PVdF-HFP

HARINDER PAL SINGH

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Electrical conduction in wax and natural gum resin

H MALLIK AND A SARKAR

Ionic conductivity studies of PVA – PVP blends

S SELVASEKARAPANDIAN, G HIRANKUMAR, T SAVITHA AND C S RAMYA

Ionic conduction studies in C^{5+} ion irradiated P(VDF-HFP)-(PC+DEC)-LiClO₄ gel polymer electrolyte system

D SAIKIA, A M P HUSSAIN, A KUMAR, F SINGH AND D K AVASTHI

Formation of polyethylene oxide-based composite polymer electrolytes blended with Al₂O₃ nanoparticles

A AUSTIN SUTHANTHIRARAJ AND D JOICE SHEEBA